



Applicant Dkt. No. 082380-00339

☐ DESIGN ☒ UTILITY PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David R. Payne, Gerald A. Stangl,  
Norman E. Stevens, Jr., and Michael  
F. Gard

Group No.: 3672

Examiner: R. Addie

Serial No.: 09/481,351

Filed: January 12, 2000

For: SYSTEM AND METHOD FOR  
AUTOMATICALLY DRILLING  
AND BACKREAMING A  
HORIZONTAL BORE  
UNDERGROUND

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RECEIVED  
JUL 16 2002  
GROUP 3600

BOX FEE AMENDMENT  
Commissioner for Patents  
Washington, D. C. 20231

RESPONSE TRANSMITTAL

1. Transmitted herewith is a Response to Office action of January 30, 2002, in the above-identified application

Status of Applicant

2. Applicant is:

- ☐ a small entity. A verified statement:
- ☐ is attached.
- ☐ was already filed.
- ☒ other than a small entity.

CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited on July 1, 2002, with the United States Postal Service with sufficient postage as First Class mail in an envelope addressed to, BOX FEE AMENDMENT, Commissioner for Patents, Washington, D.C. 20231.

Sean V. O'Connell  
Name of Applicant, assignee or  
registered representative

Signature

July 1, 2002  
Date

### Extensions of Time

3. The proceedings herein are for a patent application and the provisions of 37 C.F.R. § 1.136 apply.

(complete (a) or (b) as applicable)

- (a). ☒ Applicant petitions for an extension of time under 37 C.F.R. § 1.136 (fees 37 C.F.R. § 1.17(a) - (d)) for the total months checked below:

	Extension (months)	Fee for other than a Small Entity	Fee for Small Entity
<input type="checkbox"/>	one month	\$ 110.00	\$ 55.00
<input checked="" type="checkbox"/>	two months	400.00	200.00
<input type="checkbox"/>	three months	920.00	460.00
<input type="checkbox"/>	four months	1,440.00	720.00

Fee: \$400.00

If an additional extension of time is required, please consider this a petition therefor.

(check and complete the next item if applicable)

- ☐ An extension for \_\_\_\_\_ months has already been secured and the fee paid therefor of \$\_\_\_\_\_ is deducted from the total fee due for the total months of extension now requested.

Extension fee due with this request: \$ 400.00.

**OR**

- (b) ☐ Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition for extension of time.

### Fee for Claims

The fee for claims (37 C.F.R. § 1.16(b)-(d)) has been calculated as shown below:

CLAIMS AFTER AMENDMENT		HIGHEST NO. PREVIOUSLY PAID FOR		PRESENT EXTRA	SMALL ENTITY ADT'L RATE FEE		OTHER THAN SMALL ENTITY ADT'L RATE FEE	
TOTAL	56	-	56	0	X 9=	\$ 00.00	X18=	\$0.00
INDEP	8	-	8	0	X42=	\$ 00.00	X84=	\$0.00
PRESENTATION OF MULTIPLE DEP. CLAIM					0	X140	\$ 00.00	X280= \$0.00
TOTAL ADDITIONAL FEE						\$ 00.00	TOTAL	\$0.00

(complete (a) or (b) as applicable)

- (a) ☒ No additional fee is required for this amendment.

OR

- (b) ☐ Total additional fee for claims required: \$\_\_\_\_\_.

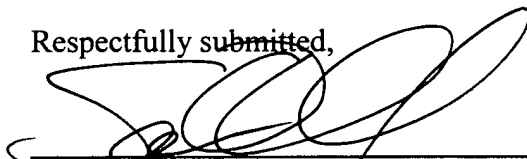
**Fee Payment**

5. ☐ Attached is a check in the sum of \$\_\_\_\_\_.
- ☒ Charge Deposit Account No. 13-2493 the sum of \$400.00\_\_\_\_\_.
- A duplicate of this transmittal is attached.
- ☒ If any additional extension and/or fee is required, charge  
Deposit Account No. 13-2493.
- ☒ If any additional claim fee is required, charge Deposit Account No. 13-2493.

**Return Postcard**

6. A pre-addressed return post card in enclosed.

Respectfully submitted,



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SVO/tdr/82380-339/478923\_1



#10/Reg Est  
PATENT *Reed*

7/25/02

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: David R. Payne, Gerald A. Stangl, Norman E. Stevens, Jr., and Michael F. Gard  
Serial No.: 09/481,351  
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RESPONSE TO OFFICE ACTION OF JANUARY 30, 2002.

This paper is provided in response to the Office Action mailed January 30, 2002. In response, the Applicant submits the following Remarks and further submits the application is in condition for allowance, in light of the following arguments.

REMARKS

Applicant acknowledges that claims 12-20, and 22 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention.

**Claim Rejections Under 35 U.S.C. § 102**

The Examiner rejected claim 1 as unpatentable under 35 U.S.C. § 102(b) as anticipated by U.S. Patent No. 5,182,516 issued to Ward et al. Reconsideration of this rejection is respectfully requested.

Independent claim 1 is directed to a horizontal drilling system. The horizontal drilling system comprises a horizontal drilling machine and a machine control system adapted to operate the horizontal drilling machine. The machine control system comprises a plurality of sensors and a main control circuit. The plurality of sensors are each positioned to sense data relative to at least one of a plurality of parameters defining the operation of the drilling machine.